Public Health Service, HHS

- (7) The test aerosol will be drawn to each respirator for a total of 156 minutes for air-purifying respirators and 240 minutes for power air-purifying respirators.
- (8) The total amount of unretained mist in the samples taken during testing, weighed as ash, shall not exceed 1.5 milligrams for any air-purifying respirator, 8.3 milligrams for a powered air-purifying respirator with tight-fitting facepiece, and 12.3 milligrams for a powered air-purifying respirator with loose-fitting hood or helmet.
- (f) Bench tests; gas and vapor tests. (1) Bench tests will be made in accordance with §84.207 and tested cartridges shall meet the minimum requirements set forth in Table 11 of subpart L of this part. Cartridges will be equilibrated in accordance with paragraph (f)(2) of this section.
- (2)(i) Two powered air-purifying cartridges or pairs of cartridges will be equilibrated at room temperature by passing 25 percent relative humidity air through them at the following flow rates (expressed in liters per minute (l.p.m.)) for 6 hours:

Type of cartridge	Airflow rate, I.p.m.
Powered air purifying with tight-fitting facepiece Powered air purifying with loose-fitting hood or	115
helmet	170

- (ii) Two powered air-purifying cartridges or pairs of cartridges will be equilibrated by passing 85 percent relative humidity air through them at the flow rates stated in paragraph (f)(2)(i) of this section.
- (iii) All cartridges will be resealed, kept in an upright position, at room temperatures, and tested within 18 hours.

§84.1158 Dust, fume, and mist tests; respirators with filters; minimum requirements; general.

- (a) Three respirators with cartridges containing, or having attached to them, filters for protection against dusts, fumes, and mists, except the mists of paints, lacquers, and enamels, will be tested in accordance with the provisions of §84.1157(f).
- (b) In addition to the test requirements set forth in paragraph (a) of this section, three such respirators will be tested, as appropriate, in accordance with the provisions of §§ 84.1141 through 84.1152; however, the maximum allowable resistance of complete dust, fume, and mist, and gas, vapor, or gas and vapor chemical cartridge respirators shall not exceed the maximum allowable limits set forth in § 84.1157(a)(2).

TABLES TO SUBPART KK OF PART 84

TABLE 12—FACEPIECE TEST REQUIREMENTS [42 CFR Part 84, Subpart KK]

Despirates times	Pressure tightness	Isoamyl acetate test	
Respirator types		84.1141	84.1142
Dusts: Air Contamination Level not less than 0.05 mg/M³ or 2 mppcf	X X X	х	
and radionuclides	X X X	x	X

¹ Test is required only where applicable.

TABLE 13—AIR-PURIFYING AND POWERED AIR-PURIFYING RESPIRATOR FILTER TESTS REQUIRED FOR APPROVAL

[42 CFR Part 84, Subpart KK]

Respirator types	;	Silica dust tests	3	Lead fume test 84.1146	Silica mist test 84.1147	DOP test 84.1151
Respirator types	84.1144	84.1145	84.1152			
Dusts: Air Contamination Level not less than 0.05 mg/M³ or 2 mppcf	X					

Pt. 85

TABLE 13—AIR-PURIFYING AND POWERED AIR-PURIFYING RESPIRATOR FILTER TESTS REQUIRED FOR APPROVAL—Continued

[42 CFR Part 84, \$	Subpart KK]
---------------------	-------------

Despirator tunos	Silica dust tests		Lead fume	Silica mist	DOP test	
Respirator types	84.1144	84.1145	84.1152	test 84.1146	test 84.1147	84.1151
Fumes: Air Contamination Level not less than 0.05 mg/M³	1 X 2 X	3 X	x	x	2 X 3 X 3 X	х

TABLE 14—CARBON TETRACHLORIDE BENCH TESTS AND REQUIREMENTS FOR CANISTERS AND CARTRIDGES

[42 CFR part 84, Subpart KK]

Type of pesticide respirator	Test con- centration p.p.m. CCI ₄	Flow rate I.p.m.	Number of tests	Minimum life minutes ¹
Chest-mounted or back-mounted gas mask (as received)	20,000	64	3	12
Chest-mounted or back-mounted gas mask (equilibrated)	20,000	32	4	12
Chin-style gas mask (as received)	5,000	64	3	12
Chin-style gas mask (equilibrated)	5,000	32	4	12
Chemical Cartridge respirator (as received)	1,000	64	3	50
Chemical cartridge respirator (equilibrated)	1,000	32	4	50
Powered air-purifying respirator (tight-fitting facepiece, as received)	1,000	² 115	3	50
Powered air-purifying respirator (tight-fitting facepiece, equilibrated)	1,000	² 115	4	25
Powered air-purifying respirator (loose-fitting hood or helmet, as received)	1,000	³ 170	3	50
Powered air-purifying respirator (loose-fitting hood or helmet, equilibrated)	1,000	³ 170	4	25

PART 85—REQUESTS FOR HEALTH HAZARD EVALUATIONS

Sec.

- 85.1 Applicability.
- 85.2 Definitions.
- 85.3 Procedures for requesting health hazard evaluations.
- 85.3-1 Contents of a request for health hazard evaluations.
- 85.4 Acting on requests.
- 85.5 Authority for investigations.
- 85.6 Advance notice of visits.
- 85.7 Conduct of investigations.
- 85.8 Provision of suitable space for employee interviews and examinations; identification of employees.
- 85.9 Representatives of employers and employees; employee requests.
- 85.10 Imminent dangers.

- 85.11 Notification of determination to employers, affected employees, and Department of Labor.
- 85.12 Subsequent requests for health hazard evaluations.

AUTHORITY: Sec. 8(g), 84 Stat. 1600; 29 U.S.C. 657(g) and sec. 508, 83 Stat. 803; 30 U.S.C. 957.

SOURCE: 37 FR 23640, Nov. 7, 1972, unless otherwise noted.

§85.1 Applicability.

This part 85 applies to health hazard evaluations requested by any employer or authorized representative of employees under section 20(a)(6) of the Occupational Safety and Health Act of 1970 or section 501(a)(11) of the Federal Mine Safety and Health Act of 1977. This part is not intended to preclude

¹ For resistance only. ² For penetration only. ³ Test required only where applicable.

Minimum life will be determined at 5 p.p.m. leakage.
 The flow rate shall be the effective flow rate of the device, but shall be not less than 115 l.p.m.
 The flow rate shall be the effective flow rate of the device, but shall be not less than 170 l.p.m.